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PN - DE19715054 A 19981015
 AB - The invention relates to an electroluminescent component in a layer assembly, comprising a substrate (1) on which at least two electrodes (2, 8), a base electrode and a top electrode, are arranged, said electrodes containing an electroluminescent substance (4, 6), and an encapsulation (9) encompassing the components on the substrate (1). The aim of the invention is to provide a flexible, non-expensive, scratch-resistant and degradation-reducing encapsulation. To this end, the inventive encapsulation (9) contains at least one protective layer obtained by means of plasma polymerization.
 EC - H01L51/52C ; H05B33/04
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AN - 1998-543695 [47]
 TI - Layered electroluminescent component, especially organic light-emitting diode - comprises electrodes and electroluminescent medium layers on plastics substrate, encapsulated by protective layer formed by plasma polymerisation.
 AB - DE19715054 The layered electroluminescent component comprises a substrate (1), carrying at least a base and a top electrode (2,8). These enclose an electroluminescent medium (4,6). The whole is encapsulated (9) by a protective layer formed by plasma polymerisation. Preferably there are more such layers, all transparent.
 - The electroluminescent medium includes at least one layer with an organic charge-transporting compound. The component is made of flexible materials. The substrate may be a flexible sheet of polyethylene terephthalate, PEN, polyether sulphone, polyvinyl chloride, polyethylene, polypropylene, polyamide, polycarbonate or polyester. The device is constructed as an O-LED, i.e. an organic light-emitting diode.
 - USE - To make a flexible organic light emitting diode, e.g. as part of a display.
 - ADVANTAGE - The unit can be constructed as a flexible display, unlike those with glass encapsulation. The protective layers prevent deterioration due to inward diffusion of oxygen and moisture. In addition the encapsulation is suitably transparent, flexible and scratch-resistant. Construction is economic and durable.
 - (Dwg.1/1)
 IW - LAYER ELECTROLUMINESCENT COMPONENT ORGANIC LIGHT EMIT DIODE COMPRISE ELECTRODE ELECTROLUMINESCENT MEDIUM LAYER PLASTICS SUBSTRATE ENCAPSULATE PROTECT LAYER FORMING PLASMA POLYMERISE
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